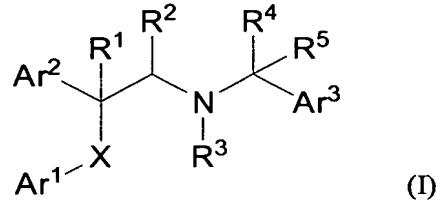


IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (original). A compound of structural formula I:



or a pharmaceutically acceptable salt thereof, wherein:

R¹ is selected from:

- (1) hydrogen,
- (2) C₁₋₄alkyl, unsubstituted or substituted with 1, 2 or 3 R^e substituents,
- (3) halogen, and
- (4) -OR^d;

R² is selected from:

- (1) hydrogen,
- (2) C₁₋₄alkyl, and
- (3) aryl,

wherein each alkyl and aryl moiety is unsubstituted or substituted with 1, 2 or 3 R^e substituents;

R³ is selected from:

- (1) hydrogen, and
- (2) C₁₋₄alkyl, unsubstituted or substituted with 1, 2 or 3 R^e substituents;

R⁴ is selected from:

- (1) hydrogen,
- (2) C₁₋₁₀alkyl,
- (3) C₂₋₁₀alkenyl,
- (4) C₂₋₁₀alkynyl,
- (5) C₁₋₁₀alkyloxycarbonyl-, and
- (6) C₃₋₁₀cycloalkyl,
- (7) aryl-C₁₋₆alkyl-, and
- (8) heteroaryl-C₁₋₆alkyl-,

wherein each alkyl, alkenyl, and alkynyl moiety is unsubstituted or substituted with one to four substituents independently selected from R^a and each aryl, heteroaryl, and cycloalkyl

moiety is unsubstituted or substituted with one, two or three substituents independently selected from R^b and oxo;

R⁵ is selected from:

- (1) hydrogen, and
- (2) C₁₋₄alkyl, unsubstituted or substituted with 1, 2 or 3 R^e substituents;

Ar¹ is selected from:

- (1) C₁₋₁₀alkyl,
- (2) C₂₋₁₀alkenyl,
- (3) C₂₋₁₀alkynyl,
- (4) C₃₋₁₀cycloalkyl,
- (5) cycloheteroalkyl,
- (6) aryl, and
- (7) heteroaryl,

wherein each alkyl, alkenyl, and alkynyl moiety is unsubstituted or substituted with one to three substituents independently selected from R^a;

each aryl and heteroaryl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b; and

each cycloalkyl and cycloheteroalkyl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b and oxo;

Ar² is selected from:

- (1) -ORD^d,
- (2) -CO₂R^d,
- (3) C₃₋₁₀cycloalkyl,
- (4) cycloheteroalkyl,
- (5) aryl, and
- (6) heteroaryl,

wherein each cycloalkyl, cycloheteroalkyl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b and oxo; and each aryl and heteroaryl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b;

Ar³ is selected from:

- (1) cycloalkyl,
- (2) aryl, and
- (3) heteroaryl,

wherein each cycloalkyl, aryl and heteroaryl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b;

X is selected from:

- (1) a bond,
- (2) C₁₋₄alkyl,
- (3) oxygen,
- (4) sulfur, and
- (5) -NR^c-,

provided that when X is oxygen, sulfur, or -NR^c-, then R¹ is hydrogen or C₁₋₄alkyl and Ar² is not -OR^d;

each R^a is independently selected from:

- (1) -OR^d,
- (2) -NR^cS(O)_mR^d,
- (3) halogen,
- (4) -SR^d,
- (5) -S(O)_mR^d,
- (6) -S(O)_mNR^cR^d,
- (7) -NR^cR^d,
- (8) -C(O)R^d,
- (9) -CO₂R^d,
- (10) -CN,
- (11) -C(O)NR^cR^d,
- (12) -NR^cC(O)R^d,
- (13) -NR^cC(O)OR^d,
- (14) -NR^cC(O)NR^cR^d,
- (15) -CF₃,
- (16) -OCF₃, and
- (17) cycloheteroalkyl;

each R^b is independently selected from:

- (1) R^a,
- (2) C₁₋₁₀alkyl,
- (3) aryl,
- (4) arylC₁₋₄alkyl,
- (5) heteroaryl, and
- (6) heteroarylC₁₋₄alkyl,

wherein aryl and heteroaryl moieties are unsubstituted or substituted with one, two or three substituents independently selected from R^f;

R^c and R^d are independently selected from:

- (1) hydrogen,
- (2) C₁₋₁₀alkyl,
- (3) C₂₋₁₀ alkenyl,
- (4) cycloalkyl,
- (5) cycloalkyl-C₁₋₁₀alkyl-,
- (6) cycloheteroalkyl,
- (7) cycloheteroalkyl-C₁₋₁₀ alkyl-,
- (8) aryl,
- (9) heteroaryl,
- (10) aryl-C₁₋₁₀alkyl-, and
- (11) heteroaryl-C₁₋₁₀alkyl-, or

R^c and R^d together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and N-R_g,

each R^c and R^d are unsubstituted or substituted with one to three substituents selected from R^h;
R^e is selected from:

- (1) hydroxy,
- (2) methoxy-,
- (3) trifluoromethoxy-,
- (4) methylcarbonyloxy-,
- (5) halogen, and
- (6) cyano;

R^f is selected from:

- (1) halogen,
- (2) methyl,
- (3) cyano, and
- (4) amino;

each R_g is independently selected from

- (1) C₁₋₁₀alkyl, and
- (2) -C(O)Rⁱ;

each R^h is independently selected from:

- (1) halogen,
- (2) C₁₋₁₀alkyl,
- (3) -O-C₁₋₄alkyl,
- (4) -S-C₁₋₄alkyl,
- (5) -CN,

- (6) $-\text{NO}_2$,
- (7) $-\text{CF}_3$, and
- (8) $-\text{OCF}_3$;

each R^1 is independently selected from:

- (1) hydrogen,
- (2) $\text{C}_{1-10}\text{alkyl}$,
- (3) $\text{C}_{2-10}\text{ alkenyl}$,
- (4) cycloalkyl,
- (5) cycloalkyl- $\text{C}_{1-10}\text{alkyl}$ -,
- (6) cycloheteroalkyl,
- (7) cycloheteroalkyl- $\text{C}_{1-10}\text{alkyl}$ -,
- (8) aryl,
- (9) heteroaryl,
- (10) aryl- $\text{C}_{1-10}\text{alkyl}$ -, and
- (11) heteroaryl- $\text{C}_{1-10}\text{alkyl}$ -; and

m is selected from 1 and 2.

Claim 2 (original). The compound according to Claim 1, wherein:

X is selected from:

- (1) a bond,
- (2) $-\text{CH}_2-$,
- (3) oxygen, and
- (4) sulfur,

provided that when X is oxygen, or sulfur, then R^1 is hydrogen or $\text{C}_{1-4}\text{alkyl}$, and Ar^2 is not $-\text{OR}^{\text{d}}$;

each R^{a} is independently selected from:

- (1) $-\text{OR}^{\text{d}}$,
- (2) $-\text{NHS(O)}_2\text{R}^{\text{d}}$,
- (3) halogen,
- (4) $-\text{SR}^{\text{d}}$,
- (5) $-\text{S(O)}_2\text{R}^{\text{d}}$
- (6) $-\text{S(O)}_2\text{NR}^{\text{c}}\text{R}^{\text{d}}$,
- (7) $-\text{NR}^{\text{c}}\text{R}^{\text{d}}$,
- (8) $-\text{C(O)}\text{R}^{\text{d}}$,
- (9) $-\text{CO}_2\text{R}^{\text{d}}$,
- (10) $-\text{CN}$,

- (11) $-\text{C}(\text{O})\text{NRC}^{\text{c}}\text{R}^{\text{d}}$,
- (12) $-\text{NHC}(\text{O})\text{R}^{\text{d}}$,
- (13) $-\text{NHC}(\text{O})\text{OR}^{\text{d}}$,
- (14) $-\text{NHC}(\text{O})\text{NRC}^{\text{c}}\text{R}^{\text{d}}$,
- (15) $-\text{CF}_3$, and
- (16) $-\text{OCF}_3$;

each R^{b} is independently selected from:

- (1) R^{a} ,
- (2) $\text{C}_{1-3}\text{alkyl}$,
- (3) phenyl, and
- (4) heteroaryl,

wherein aryl and heteroaryl moieties are unsubstituted or substituted with one or two substituents independently selected from R^{f} ,

each R^{c} is selected from hydrogen and methyl, and each R^{d} is selected from:

- (1) hydrogen,
- (2) $\text{C}_{1-6}\text{alkyl}$,
- (3) cycloalkyl,
- (4) cycloalkyl- $\text{C}_{1-3}\text{alkyl}$ -,
- (5) cycloheteroalkyl,
- (6) cycloheteroalkyl- C_{1-3} alkyl-,
- (7) phenyl,
- (8) pyridyl,
- (9) triazolyl,
- (10) pyrazolyl
- (11) phenyl- $\text{C}_{1-3}\text{alkyl}$ -,
- (12) pyridyl- $\text{C}_{1-3}\text{alkyl}$ -,
- (13) triazolyl- $\text{C}_{1-3}\text{alkyl}$ -, and
- (14) pyrazolyl- $\text{C}_{1-3}\text{alkyl}$ -,

wherein each R^{c} and R^{d} may be unsubstituted or substituted with one to three substituents selected from R^{h} ;

and pharmaceutically acceptable salts thereof.

Claim 3 (original). The compound according to Claim 2, wherein: R^1 , R^3 and R^5 are each hydrogen; R^2 is selected from C_{1-4} alkyl and phenyl; and pharmaceutically acceptable salts thereof.

Claim 4 (original). The compound according to Claim 3, wherein:

R⁴ is selected from:

- (1) C₁-6alkyl,
- (2) C₁-5alkyloxycarbonyl-, and
- (3) C₃-6cycloalkyl,
- (4) aryl-C₁-3alkyl-, and
- (5) heteroaryl-C₁-3alkyl-,

wherein each alkyl moiety is unsubstituted or substituted with one to two substituents independently selected from R^a and each aryl, heteroaryl and cycloalkyl moiety is unsubstituted or substituted with a hydroxy or oxo substituent;

Ar¹ is selected from:

- (1) C₁-10alkyl,
- (2) C₃-10cycloalkyl,
- (3) cycloheteroalkyl,
- (4) phenyl, and
- (5) heteroaryl,

wherein each alkyl moiety is unsubstituted or substituted with one to three substituents independently selected from R^a,

each aryl and heteroaryl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b, and

each cycloalkyl and cycloheteroalkyl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b and oxo;

Ar² is selected from: aryl and heteroaryl, wherein aryl and heteroaryl are optionally substituted with one to four substituents independently selected from R^b,
and pharmaceutically acceptable salts thereof.

Claim 5 (currently amended). The compound according to Claim 4, wherein: Ar³ is cyclohexyl or phenyl, unsubstituted or substituted with one or two substituents selected from halogen, cyano, -CH₃, -OCH₃, -CF₃, -OCF₃, -CO₂CH₃, -SCH₃, -S(O)CH₃, -S(O)₂CH₃, -C(O)N(CH₃)₂, phenyl, pyridinyl, pyrimidinyl, pyrazolyl, pyrrolyl, triazolyl, -NH-R^d wherein phenyl and heteroaryl moieties are unsubstituted or substituted with a substituent selected from halogen, methyl, cyano and amino, and pharmaceutically acceptable salts thereof thereof.

Claim 6 (original). The compound according to Claim 5, wherein: R² is methyl, X is -CH₂-, Ar¹ is 4-chlorophenyl, and Ar² is 3-cyanophenyl.

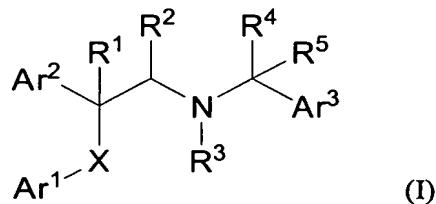
Claim 7 (original). The compound according to Claim 1 selected from: 3-(1(S)(4-chlorobenzyl)-2(S)-((2-hydroxy-2-methyl-1-phenylpropyl)amino)propyl)benzonitrile, methyl ((3-(4-chlorophenyl)-2(S)-(3-cyanophenyl)-1(S)-methyl-propyl)amino)(phenyl)acetate, 3-(1(S)-1-(4-chlorobenzyl)-2(S)-((2-hydroxy-1-phenylethyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((2-methoxy-1-phenylethyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-chlorophenyl)-2-hydroxy-2-methyl-propyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3,5-difluorophenyl)-2-hydroxy-2-methyl-propyl)amino)propyl)-benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(2-chlorophenyl)-2-hydroxy-2-methyl-propyl)amino)propyl)-benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-chlorophenyl)-2-hydroxy-2-methyl-propyl)amino)propyl)-benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(2,4-difluorophenyl)-2-hydroxy-2-methyl-propyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3,4-difluorophenyl)-2-hydroxy-2-methyl-propyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(2-chloro-4-fluorophenyl)-2-hydroxy-2-methyl-propyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(2-fluoro-4-chlorophenyl)-2-hydroxy-2-methyl-propyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-fluorophenyl)-2-hydroxy-2-methyl-propyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-(((1-hydroxycyclobutyl)-(3,5-difluorophenyl)methyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-(((1-hydroxycyclohexyl)-(3,5-difluorophenyl)methyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3,5-difluorophenyl)-2-hydroxy-2-ethyl-butyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3,5-difluorophenyl)-2-hydroxy-2-methoxymethyl-propyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3,5-difluorophenyl)-2-hydroxy-propyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-phenyl-3-hydroxy-2,2-dimethylpropyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-phenyl)-2-acetylamino-propyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-phenyl-2-t-butyloxycarbonylaminoethyl)-amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-phenyl-2-aminoethyl)-amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-phenyl-2-cyanoethyl)-amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-phenyl-2-cyano-2-methylpropyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-phenyl-2-methanesulfonylethyl)amino)propyl)benzonitrile, and pharmaceutically acceptable salts thereof.

Claim 8 (original). The compound according to Claim 1 selected from: 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-phenyl-2-(1H-pyrazol-1-yl)ethyl) amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((2-methyl-1-phenyl-2-(1H-pyrazol-1-yl)propyl) amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-phenyl-2-(1H-1,2,4-triazol-1-yl)ethyl) amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((2-(2-oxopyridin-1(2H)-yl-1-phenyl-ethyl) amino)propyl)benzonitrile,

3-(1(S)-(4-chlorobenzyl)-2(S)-((1-biphenyl-4-yl-2-cyanoethylamino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-biphenyl-4-yl-2-cyano-2-methylpropyl)amino)propyl) benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-bromophenyl)-2-cyanoethyl) amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-chlorophenyl)-2-cyanoethyl) amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-fluorophenyl)-2-cyanoethyl) amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-chlorophenyl)-2-cyanoethyl) amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-trifluoromethylphenyl)-2-cyano-ethyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-trifluoromethylphenyl)-2-cyano-ethyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-methylphenyl)-2-cyanoethyl) amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-trifluoromethoxyphenyl)-2-cyanoethyl)amino)propyl) benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-methylphenyl)-2-cyanoethyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(2-chlorophenyl)-2-cyanoethyl)amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3,4-dichlorophenyl)-2-cyanoethyl) amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-cyanophenyl)-2-cyanoethyl)amino) propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-cyanophenyl)-2-cyano-2-methyl-propyl)amino) propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-cyclohexyl-2-cyanoethyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-methylthiophenyl)-2-cyanoethyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-cyanophenyl)-2-cyanoethyl) amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-methoxyphenyl)-2-cyanoethyl) amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-methylthiophenyl)-2-cyanoethyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-biphenyl-3-yl-2-cyanoethyl)amino)propyl)benzonitrile, 64523-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-dimethylaminocarbonylphenyl)-2-cyanoethyl)amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-dimethylaminocarbonylphenyl)-2-cyano-2-methylpropyl)amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-(1H-pyrrol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-(1H-pyrazol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-(1H-imidazol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-chlorophenyl)-2-cyano-2-methylpropyl)amino)propyl)benzonitrile, 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-fluorophenyl)-2-cyano-2-methylpropyl)amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-chlorophenyl)-2-cyano-2-methylpropyl)amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-chlorophenyl)-2-cyano-2-methylpropyl)amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-trifluoromethylphenyl)-2-cyano-2-methylpropyl)amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-trifluoromethylphenyl)-2-cyano-2-methylpropyl)amino)propyl)

propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-methanesulfonylphenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-methanesulfinylphenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-(1H-1,2,4-triazol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino) propyl) benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-(1H-1,2,5-triazol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-(1H-1,2,3-triazol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino)propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-(1H-1,2,4-triazol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-(1H-1,2,5-triazol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-(1H-1,2,3-triazol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-(1H-pyrazol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-(1H-pyrazol-3-ylamino)phenyl)-2-cyano-2-methylpropyl)amino) propyl) benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-(1H-1,2,4-triazol-3-ylamino)phenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(4-(3-amino-1H-1,2,4-triazol-1-yl)phenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-(1H-pyrazol-3-ylamino)phenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-(1H-1,2,4-triazol-3-ylamino)phenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), 3-(1(S)-(4-chlorobenzyl)-2(S)-((1-(3-(pyridine-2-ylamino)phenyl)-2-cyano-2-methylpropyl)amino) propyl)benzonitrile (diastereomer A), and pharmaceutically acceptable salts thereof.

Claim 9 (original). A compound of structural formula I:



or a pharmaceutically acceptable salt thereof, wherein:

R¹ is selected from:

- (1) hydrogen,
- (2) C₁₋₄alkyl, unsubstituted or substituted with 1, 2 or 3 R^e substituents,
- (3) halogen, and
- (4) -OR^d;

R² is selected from:

- (1) hydrogen,
- (2) C₁₋₄alkyl, and
- (3) aryl,

wherein each alkyl and aryl moiety is unsubstituted or substituted with 1, 2 or 3 R^e substituents;

R³ is selected from:

- (1) hydrogen, and
- (2) C₁₋₄alkyl, unsubstituted or substituted with 1, 2 or 3 R^e substituents;

R⁴ is selected from:

- (1) hydrogen,
- (2) C₁₋₁₀alkyl,
- (3) C₂₋₁₀alkenyl,
- (4) C₂₋₁₀alkynyl,
- (5) C₁₋₁₀alkyloxycarbonyl-, and
- (6) C₃₋₁₀cycloalkyl,

wherein each alkyl, alkenyl, and alkynyl moiety is unsubstituted or substituted with one to four substituents independently selected from R^a and each cycloalkyl moiety is unsubstituted or substituted with one, two or three substituents independently selected from R^b;

R⁵ is selected from:

- (1) hydrogen, and
- (2) C₁₋₄alkyl, unsubstituted or substituted with 1, 2 or 3 R^e substituents;

Ar¹ is selected from:

- (1) C₁₋₁₀alkyl,
- (2) C₂₋₁₀alkenyl,
- (3) C₂₋₁₀alkynyl,
- (4) C₃₋₁₀cycloalkyl,
- (5) cycloheteroalkyl,,
- (6) aryl, and
- (7) heteroaryl,

wherein each alkyl, alkenyl, and alkynyl moiety is unsubstituted or substituted with one to three substituents independently selected from R^a,

each aryl and heteroaryl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b, and

each cycloalkyl and cycloheteroalkyl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b and oxo;

Ar² is selected from:

- (1) -ORD^d,
- (2) -CO₂R^d,
- (3) C₃-10cycloalkyl,
- (4) cycloheteroalkyl,
- (5) aryl, and
- (6) heteroaryl,

wherein each cycloalkyl, cycloheteroalkyl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b and oxo; and each aryl and heteroaryl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b;

Ar³ is selected from:

- (1) aryl, and
- (2) heteroaryl,

wherein each aryl and heteroaryl moiety is unsubstituted or substituted with one to four substituents independently selected from R^b;

X is selected from:

- (1) a bond,
- (2) C₁-4alkyl,
- (3) oxygen,
- (4) sulfur, and
- (5) -NRC^c-;

provided that when X is oxygen, sulfur, or -NRC^c-, then R¹ is hydrogen or C₁-4alkyl and Ar² is not -ORD^d;

each R^a is independently selected from:

- (1) -ORD^d,
- (2) -NRC^cS(O)_mR^d,
- (3) halogen,
- (4) -SR^d,
- (5) -S(O)_mR^d,
- (6) -S(O)_mNRC^cR^d,
- (7) -NRC^cR^d,
- (8) -C(O)R^d,
- (9) -CO₂R^d,
- (10) -CN,
- (11) -C(O)NRC^cR^d,

- (12) $-\text{NR}^c\text{C}(\text{O})\text{R}^d$,
- (13) $-\text{NR}^c\text{C}(\text{O})\text{OR}^d$,
- (14) $-\text{NR}^c\text{C}(\text{O})\text{NR}^c\text{R}^d$,
- (15) $-\text{CF}_3$,
- (16) $-\text{OCF}_3$, and
- (17) cycloheteroalkyl;

each R^b is independently selected from:

- (1) R^a ,
- (2) C₁₋₁₀alkyl,
- (3) aryl,
- (4) arylC₁₋₄alkyl,
- (5) heteroaryl, and
- (6) heteroarylC₁₋₄alkyl;

R^c and R^d are independently selected from:

- (1) hydrogen,
- (2) C₁₋₁₀alkyl,
- (3) C₂₋₁₀ alkenyl,
- (4) cycloalkyl,
- (5) cycloalkyl-C₁₋₁₀alkyl-,
- (6) cycloheteroalkyl,
- (7) cycloheteroalkyl-C₁₋₁₀ alkyl-,
- (8) aryl,
- (9) heteroaryl,
- (10) aryl-C₁₋₁₀alkyl-, and
- (11) heteroaryl-C₁₋₁₀alkyl-, or

R^c and R^d together with the atom(s) to which they are attached form a heterocyclic ring of 4 to 7 members containing 0-2 additional heteroatoms independently selected from oxygen, sulfur and N- R^g ,

each R^c and R^d are unsubstituted or substituted with one to three substituents selected from R^h ;

R^e is selected from:

- (1) hydroxy,
- (2) methoxy-,
- (3) trifluoromethoxy-,
- (4) methylcarbonyloxy-,
- (5) halogen, and
- (6) cyano;

each R_g is independently selected from

- (1) C₁₋₁₀alkyl, and
- (2) -C(O)R_i;

each R^h is independently selected from:

- (1) halogen,
- (2) C₁₋₁₀alkyl,
- (3) -O-C₁₋₄alkyl,
- (4) -S-C₁₋₄alkyl,
- (5) -CN,
- (6) -NO₂,
- (7) -CF₃, and
- (8) -OCF₃;

each Rⁱ is independently selected from:

- (1) hydrogen,
- (2) C₁₋₁₀alkyl,
- (3) C₂₋₁₀ alkenyl,
- (4) cycloalkyl,
- (5) cycloalkyl-C₁₋₁₀alkyl-,
- (6) cycloheteroalkyl,
- (7) cycloheteroalkyl-C₁₋₁₀ alkyl-,
- (8) aryl,
- (9) heteroaryl,
- (10) aryl-C₁₋₁₀alkyl-, and
- (11) heteroaryl-C₁₋₁₀alkyl-; and

m is selected from 1 and 2.

Claim 10 (original). A composition comprising a compound according to Claim 1 and a pharmaceutically acceptable carrier.

Claims 11-15 (cancelled).

Claim 16 (new). A method of treating a disease mediated by the Cannabinoid-1 receptor in a human patient in need of such treatment comprising administration of a non-toxic, therapeutically effective amount of a compound according to Claim 1.

Claim 17 (new). The method according to Claim 16, wherein the disease mediated by the Cannabinoid-1 receptor is selected from: psychosis, memory deficit, cognitive disorders, migraine, neuropathy, neuro-inflammatory disorders, cerebral vascular accidents, head trauma, anxiety disorders, stress, epilepsy, Parkinson's disease, schizophrenia, substance abuse disorders, constipation, chronic intestinal pseudo-obstruction, cirrhosis of the liver, asthma, obesity, and other eating disorders associated with excessive food intake.

Claim 18 (new). The method according to Claim 17, wherein the disease mediated by the Cannabinoid-1 receptor is selected from obesity, bulimia nervosa, and compulsive eating disorders.

Claim 19 (new). The method according to Claim 18 wherein the eating disorder associated with excessive food intake is obesity.

Claim 20 (new). A method for preventing obesity in a person at risk therefor comprising administration to the person of about 0.001 mg/kg to about 100 mg/kg of a compound according to Claim 1.